



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: MORIARTY, K et al.

Docket Number: 19.0353

Serial No.:

Group Art Unit:

Filed Herewith

Examiner:

Title: DIRECTIONAL CASING DRILLING

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

<p>CERTIFICATE OF MAILING</p> <p>I HEREBY CERTIFY THAT THIS CORRESPONDENCE IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS EXPRESS MAIL IN AN ENVELOPE ADDRESSED TO: COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450 ON <u>December 13, 2003</u></p> <p>EXPRESS MAIL LABEL NO.: <u>EV399694462US</u></p> <p>SIGNED: <u>Kerry Morris</u> Kerry Morris</p>
---

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

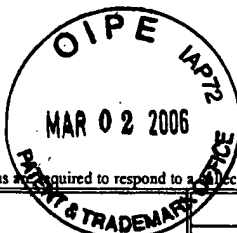
Please find enclosed an Information Disclosure Statement (Form PTO-1449) for consideration with respect to the above-identified patent application under the provisions of 37 CFR 1.97-1.98.

It is respectfully requested that these references be considered by the Examiner and formally made of record in this case. A completed PTO-1449 is included for this purpose.

No fees are thought to be necessary. However, please charge any necessary fees or credit any overpayments to Deposit Account No. 50-2898. Please stamp and return the enclosed postcard to acknowledge receipt of these documents.

Respectfully submitted,

Tim W. Curington  
Registration No. 45,944  
Stonehouse Technology Centre  
Brunel Way, Stroudwater Business Park  
Stonehouse, Glos GL10 3SX  
UK  
Phone: 1 281 285 7067



Please type a plus sign (+) inside this box → ☐

PTO/SB/08A (10-96)

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)				<i>Complete if Known</i>	
				Application Number	
				Filing Date	
				First Named Inventor	Moriarty
				Group Art Unit	
Examiner Name					
Sheet	1	of	2	Attorney Docket Number	19.0353

**U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code <sup>3</sup>			
	1	5,117,927		Askew	1992-06-02	
	2	5,845,722		Makohl et al.	1998-12-08	
	3	5,950,742		Caraway	1999-09-14	
	4	5,839,519		Spedale, Jr.	1998-11-24	
	5	6,263,987		Vail, III	2001-07-24	
	6	5,472,057		Winfrey	1995-12-05	
	7	4,842,081		Parant	1989-06-27	
	8	5,755,289		Angman et al.	1998-05-26	
	9	6,311,792		Scott et al.	2001-11-06	
	10	6,227,306		Downie et al.	2001-05-08	
	11	6,196,336		Fincher et al.	2001-03-06	
	12	6,199,641		Downie et al.	2001-03-13	
	13	5,197,553		Leturno	1993-03-30	
	14	5,452,967		Fuller	1995-09-26	
	15	5,219,028		Martin et al.	1993-06-15	
	16	5,456,326		Raines	1995-10-10	
	17	6,182,776		Asberg	2001-02-06	
	18	6,158,531		Vail, III	2000-12-12	
	19	5,662,170		Donovan et al.	1997-09-02	
	20	5,255,741		Alexander	1993-10-26	
	21	6,102,119		Raines	2000-08-15	
	22	5,921,332		Spedale, Jr.	199-07-13	
	23	5,082,069		Seilor et al.	1992-01-21	
	24	5,957,225		Sinor	1999-09-28	

**U.S. PUBLISHED APPLICATIONS**


Examiner Initials*	Cite No. <sup>1</sup>	U.S. Publication Number		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number <sup>4</sup>	Kind Code <sup>5</sup>			
	1	20020175003		Pisoni et al.	2002-11-28	
	2	20020179336		Schaaf et al.	2002-12-05	
	3	20020050360		Cook et al.	2002-05-02	
	4	20020040787		Cook et al.	2002-04-11	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Country	Date of Publication of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number <sup>4</sup>	Kind Code <sup>5</sup>			
	1	EP0462618A2		Europe	1991-12-27	
	2	WO02/14649A1		PCT	2002-02-21	
	2	WO01/94739A1		PCT	2001-12-13	
	3	WO01/94738A1		PCT	2001-12-13	
	4	WO00/50730		PCT	2000-08-31	
	5	WO01/86111A1		PCT	2001-11-15	
	6	WO02/10549A2		PCT	2002-02-07	
	7	WO01/83932A1		PCT	2001-11-08	
	8	WO00/37771		PCT	2000-06-29	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Please type a plus sign (+) inside this box → 

PTO/SB/08A (10-96)

Approved for use through 10/31/99. OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(use as many sheets as necessary)</i>		<b>Complete if Known</b>			
		Application Number			
		Filing Date			
		First Named Inventor	Moriarty		
		Group Art Unit			
		Examiner Name			
Sheet	2	of	2	Attorney Docket Number	19.0353
<b>OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS</b>					
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T <sup>2</sup>
Examiner Signature				Date Considered	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.